

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P555222

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-82-87-EDD-90**

Issue Date: 7/16/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P555222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-257-2)
Test Lab: INNOVATION CENTER
Issue Date: 7/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FUSL-12-2-LD4-2STD-35-UNV-82-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

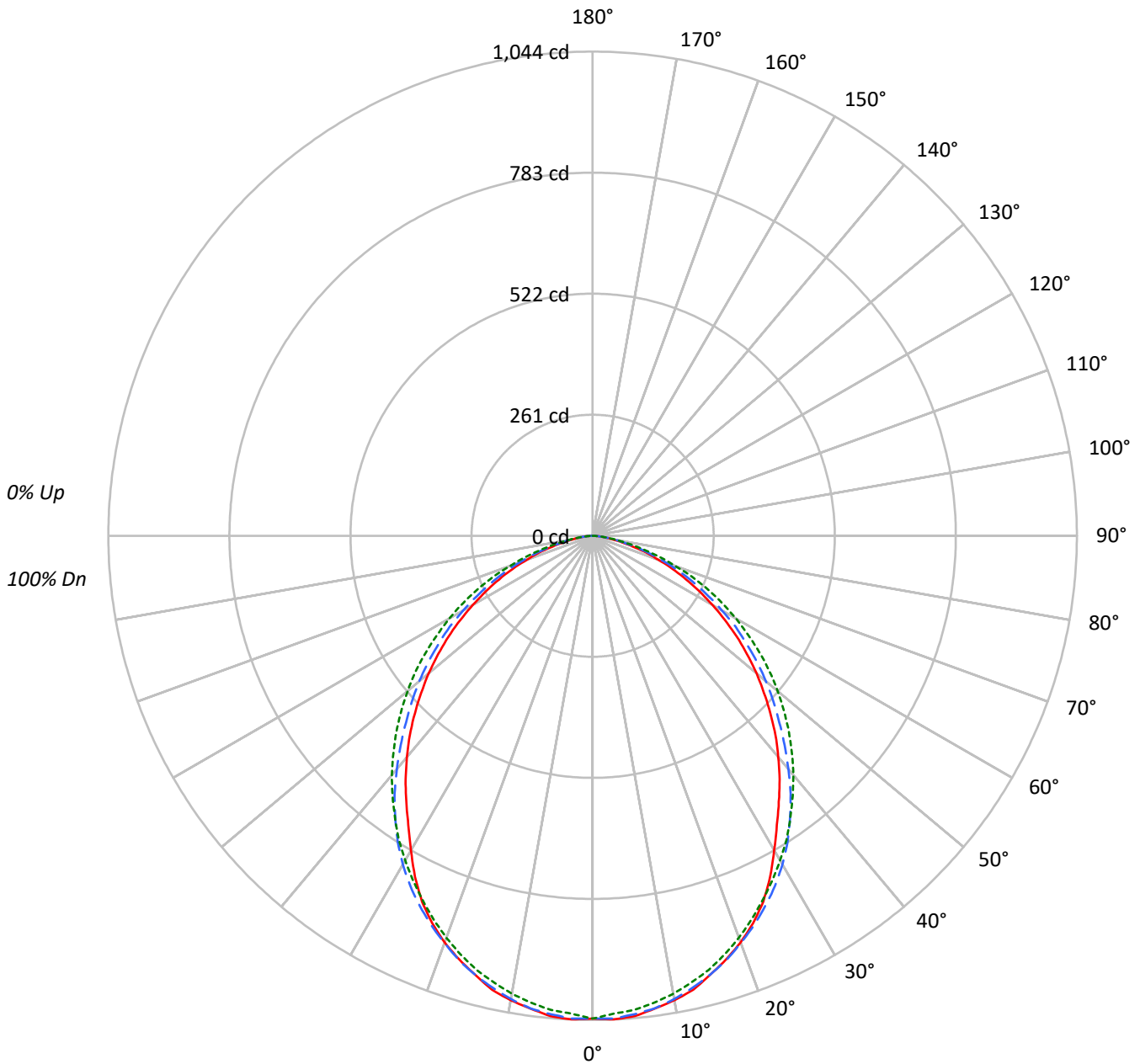
Lumens per Lamp: N/A
Luminaire Lumens: 2407.0 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73																			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63																			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54																			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47																			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42																			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37																			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34																			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30																			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5603	5603	5603
5°	5618	5594	5546
10°	5558	5543	5479
15°	5459	5459	5397
20°	5344	5350	5282
25°	5168	5232	5149
30°	4866	5085	5023
35°	4598	4874	4882
40°	4375	4611	4731
45°	4125	4332	4554
50°	3861	4082	4360
55°	3561	3797	4124
60°	3207	3465	3835
65°	2831	3081	3488
70°	2360	2625	2965
75°	1855	2096	2321
80°	1327	1475	1636
85°	865	865	815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	4.1
10°-20°	275.3	11.4
20°-30°	402.4	16.7
30°-40°	456.7	19.0
40°-50°	440.9	18.3
50°-60°	363.7	15.1
60°-70°	242.2	10.1
70°-80°	108.4	4.5
80°-90°	19.4	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	775.7	32.2
0°-40°	1232.4	51.2
0°-60°	2037.0	84.6
0°-90°	2407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2407.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1041	1041	1041	1041	1041	
5°	1040	1039	1035	1030	1027	98
15°	980	982	980	975	969	276
25°	870	877	881	875	867	399
35°	700	709	742	746	743	438
45°	542	551	569	595	598	418
55°	380	386	405	427	440	339
65°	222	228	242	259	274	220
75°	89	94	101	106	112	98
85°	14	14	14	13	13	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1041.0	1041.0	1041.0	1041.0	1041.0
2.5°	1043.8	1044.2	1041.8	1035.4	1031.4
5°	1039.8	1039.4	1035.4	1029.8	1026.6
7.5°	1028.2	1029.0	1027.8	1019.8	1015.4
10°	1017.0	1017.4	1014.2	1007.8	1002.6
12.5°	1002.6	1002.2	997.8	994.6	986.2
15°	979.8	982.2	979.8	975.4	968.6
17.5°	957.8	957.8	959.4	951.8	946.6
20°	933.0	934.2	934.2	928.2	922.2
22.5°	904.2	907.8	909.0	902.6	895.4
25°	870.2	877.0	881.0	874.6	867.0
27.5°	829.0	839.4	851.4	846.6	838.2
30°	783.0	798.2	818.2	814.2	808.2
32.5°	739.4	754.6	782.2	780.6	777.4
35°	699.8	709.4	741.8	745.8	743.0
37.5°	662.3	671.0	701.4	710.6	708.2
40°	622.7	632.3	656.3	672.6	673.4
42.5°	583.5	592.7	612.3	635.9	635.9
45°	541.9	551.1	569.1	595.1	598.3
47.5°	501.1	510.7	528.3	554.3	559.5
50°	461.1	469.9	487.5	512.7	520.7
52.5°	419.5	429.1	446.3	469.5	481.1
55°	379.5	385.9	404.7	427.1	439.5
57.5°	337.9	343.9	365.1	384.3	397.1
60°	297.9	305.5	321.9	341.5	356.3
62.5°	259.5	267.5	281.5	298.7	315.5
65°	222.3	228.3	241.9	259.1	273.9
67.5°	186.4	191.6	205.2	217.2	232.7
70°	150.0	156.8	166.8	178.4	188.4
72.5°	120.8	123.6	132.0	140.4	150.8
75°	89.2	94.0	100.8	105.6	111.6
77.5°	64.0	66.8	70.8	74.8	80.4
80°	42.8	44.0	47.6	48.4	52.8
82.5°	26.0	26.8	27.6	28.0	29.6
85°	14.0	14.0	14.0	13.2	13.2
87.5°	8.0	8.0	6.8	5.6	4.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)